WHAT IS CLAIMED IS:

1 1. A printing process control method provided in a

2 terminal apparatus comprising a storing means which

3 stores image data to be printed and a control means

4 which performs short distance wireless communication

5 with a printing apparatus, wherein,

6   said control means obtains from the printing

7 apparatus, information regarding an attribute of the

8 apparatus,

9   said control means determines whether or not said

10 printing apparatus supports a predetermined expanded

11 specification, based on the information regarding the

12 attribute thus obtained,

13   when it is determined that the printing apparatus

14 supports said predetermined expanded specification,

15 data obtained by processing said image data to be

16 printed according to said predetermined expanded

17 specification is transmitted to said printing

18 apparatus in a predetermined file format, and when it

19 is determined that said printing apparatus does not

20 support said predetermined expanded specification,

21 data for identifying said image data to be printed is

22 transmitted to said printing apparatus in a

23   predetermined file format.

1   2. The printing process control method according to

2   claim 1, wherein,

3   said predetermined expanded specification is

4   MIME (Miltipurpose Internet Mail Extension).

1   3. The printing process control method according to

2   either of claim 1 and claim 2, wherein,

3   said predetermined file format is XHTML

4   (Extensible Hypertext Markup Language).

1   4.   The printing process control method according to

2   claim 1, wherein,

3   said control means obtains information from said

4   printing apparatus, information regarding a function

5   of the printing apparatus, in addition to the

6   information regarding the attribute of said printing

7   apparatus, and displays a print settings accepting

8   screen having been modified based on said information

9   thus obtained regarding the function of the printing

10 apparatus, prior to transmitting data in said

11 predetermined file format to said printing apparatus.

1   5. A terminal apparatus which performs short distance

2 wireless communication with a printing apparatus,

3 comprising,

4   a storing means which stores image data to be

5 printed,

6   an attribute information obtaining means which

7 obtains from the printing apparatus, information

8 regarding an attribute of the apparatus,

9   a determining means which determines whether or

10 not said printing apparatus supports a predetermined

11 expanded specification, based on said information

12 regarding the attribute and

13   a transmission control means in which when it is

14 determined that said printing apparatus supports said

15 predetermined expanded specification, data obtained

16 by processing said image data to be printed according

17 to said predetermined expanded specification is

18 transmitted to said printing apparatus in a

19 predetermined file format, and when it is determined

20 that said printing apparatus does not support said

21 predetermined expanded specification, data for

22 identifying said image data to be printed is

23 transmitted to said printing apparatus in a

24 predetermined file format.

1 6. The short distance wireless communication terminal

2   apparatus according to claim 5, further comprising,

3   a function information obtaining means which

4   obtains from the printing apparatus, information

5   regarding the function of the apparatus, and

6   a print settings accepting means which displays

7   a print settings accepting screen having been modified

8   based on said information thus obtained regarding the

9   function of the printing apparatus.

1   7. A short distance wireless communication printing

2   system provided with a printing apparatus and a

3   terminal apparatus performing short distance wireless

4   communication with said printing apparatus, wherein,

5   said printing apparatus comprises,

6   an attribute information responding means which

7   makes a response as to information regarding an

8   attribute of the printing apparatus itself, in

9   response to a request from outside, and

10   said short distance wireless communication

11   terminal apparatus comprises,

12   a storing means which stores image data to be

13   printed,

14   an attribute information obtaining means which

15   obtains from said printing apparatus, information

16   regarding an attribute of the apparatus,

17   a determining means which determines whether or

18 not said printing apparatus supports a predetermined

19 expanded specification based on said information

20 regarding the attribute,

21   a transmission control means in which when it is

22 determined that said printing apparatus supports said

23 predetermined expanded specification, data obtained

24 by processing said image data to be printed according

25 to said predetermined expanded specification is

26 transmitted to said printing apparatus in a

27 predetermined file format, and when it is determined

28 that said printing apparatus does not support said

29 predetermined expanded specification, data for

30 identifying said image data to be printed is

31 transmitted to said printing apparatus in a

32 predetermined file format.

1 8. The short distance wireless communication printing

2 system according to claim 7, wherein,

3   said printing apparatus further comprises,

4   a function information responding means which

5 makes a response as to information regarding a function

6 of the printing apparatus itself, in response to a

7 request from the outside, and

8   and said short distance wireless communication

9   terminal apparatus further comprises,

10   a function information obtaining means which

11   obtains from said printing apparatus, information

12   regarding the function of the apparatus, and

13   a print settings accepting means which displays

14   a print settings accepting screen having been modified

15   based on said information thus obtained regarding the

16   function of the printing apparatus.

1   9. A recording medium which records a program that is

2   executed in a terminal apparatus comprising a storing

3   means which stores image data to be printed and

4   performing short distance wireless communication with

5   a printing apparatus, wherein,

6   said program allows said terminal apparatus to

7   function as,

8   an attribute information obtaining means which

9   obtains from the printing apparatus, information

10   regarding an attribute of the apparatus,

11   a determining means which determines whether or

12   not said printing apparatus supports a predetermined

13   expanded specification based on said information

14   regarding the attribute,

15   a transmission control means in which when it is

16   determined that said printing apparatus supports said

17   predetermined expanded specification, data obtained

18   by processing said image data to be printed according

19   to said predetermined expanded specification is

20   transmitted to said printing apparatus in a

21   predetermined file format, and when it is determined

22   that said printing apparatus does not support said

23   predetermined expanded specification, data for

24   identifying said image data to be printed is

25   transmitted to said printing apparatus in a

26   predetermined file format.

1   10. A terminal apparatus which performs short

2   distance wireless communication with printing

3   apparatuses, comprising,

4   a list displaying means which displays a list of

5   printing apparatuses available for communication, and

6   accepts a selection of the printing apparatus which

7   is used for printing,

8   a search requesting means which issues a search

9   request for devices,

10   a printing apparatus extraction means which

11   extracts a printing apparatus from the devices

12   responding to said search request,

13   a printing apparatus information requesting

14   means which requests information regarding said

15 printing apparatus from said printing apparatus thus

16 extracted,

17   a determining means which determines whether or

18 not information in response to said printing apparatus

19 information request satisfies a predetermined

20 condition, and

21   a printing apparatus registering means in which

22 when it is determined said condition is satisfied,

23 information for identifying said printing apparatus

24 is registered in a higher order of the list, and when

25 it is determined said condition is not satisfied, the

26 information for identifying the printing apparatus is

27 registered in a lower order of the list.

1 11. The terminal apparatus according to claim 10,

2 wherein,

3   said determining means determines as said

4 predetermined condition, whether or not a manufacturer

5 of said printing apparatus included in the response

6 information to said printing apparatus information

7 request is a predetermined manufacturer.

1 12. The terminal apparatus according to claim 11,

2 wherein,

3   said predetermined manufacturer is identical to

4 a developer of a program to control printing process

5 in the terminal apparatus.

1 13. The terminal apparatus according to claim 11,

2 wherein,

3   said printing apparatus registering means sorts

4 the order in the list as to the information which

5 identifies a printing apparatus determined as

6 satisfying the predetermined condition, based on a

7 predetermined order of priority, after the printing

8 apparatus is registered into a list of communication

9 available printing apparatus.

1 14. The terminal apparatus according to claim 13,

2 wherein,

3   said predetermined order of priority is a order

4 given to each model.

1 15. The terminal apparatus according to claim 10,

2 wherein,

3   information for identifying a printing apparatus

4 which said printing apparatus registering means

5 registers in said list is a manufacturer name of said

6 printing apparatus and a model name of said printing

7 apparatus, which are included in the response

8   information to said printing apparatus information

9   request.

1   16. A terminal apparatus which performs short distance

2   wireless communication with printing apparatuses,

3   comprising,

4   a list displaying means which displays a list of

5   printing apparatuses and accepts a selection of a

6   printing apparatus to be used for printing,

7   a search requesting means which issues a search

8   request for devices,

9   a printing apparatus extracting means which

10 extracts a printing apparatus from the devices which

11 respond to said search request,

12   a printing apparatus information requesting

13 means which requests information regarding said

14 printing apparatus from thus extracted printing

15 apparatus,

16   a determining means which determines whether or

17 not the response information to said printing

18 apparatus information request satisfies a

19 predetermined condition, and

20   a printing apparatus registering means which

21 registers into a list, information for identifying the

22 printing apparatus, when it is determined that the

23   printing apparatus satisfies said condition.

1   17. A recording medium which records a print control

2   program executed in a terminal apparatus that performs

3   short distance wireless communication with printing

4   apparatuses, wherein,

5   said print control program allows the terminal

6   apparatus to function as

7   a list displaying means which displays a list of

8   printing apparatuses available for communication, and

9   accepts a selection of the printing apparatus which

10 is used for printing,

11   a determining means which determines whether or

12 not information regarding said printing apparatus

13 obtained from a communication available printing

14 apparatus satisfies a predetermined condition, and

15   a printing apparatus registering means in which

16 when it is determined said condition is satisfied,

17 information for identifying said printing apparatus

18 is registered in a higher order of the list, and when

19 it is determined said condition is not satisfied, the

20 information for identifying the printing apparatus is

21 registered in a lower order of the list.

1   18. A list displaying control method in a terminal

2   apparatus which performs short distance wireless

3   communication with printing apparatuses, said list

4   displaying control method displaying a list of

5   communication available printing apparatuses and

6   accepts a selection of the printing apparatus used for

7   printing, comprising,

8   a search requesting step which issues a search

9   request for devices,

10   a printing apparatus extracting step which

11 extracts a printing apparatus from devices which have

12 responded to said search request,

13   a printing apparatus information requesting step

14 which requests information regarding said printing

15 apparatus from said printing apparatus thus extracted,

16   a determining step which determines whether or

17 not information in response to said printing apparatus

18 information request satisfies a predetermined

19 condition, and

20   a printing apparatus registering step in which

21 when it is determined said condition is satisfied,

22 information for identifying said printing apparatus

23 is registered in a higher order of the list, and when

24 it is determined said condition is not satisfied, the

25 information for identifying the printing apparatus is

26 registered in a lower order of the list.